

7 (4)

AUTHOR:

Kudokotsev, V. P.

SOV/20-126-5-66/69

TITLE:

Regeneration of Extremities in Ablepharus deserti Strauch
(Regeneratsiya konechnostey u pustynnogo gologlaza (Ablepharus
deserti Strauch))

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1141 - 1144
(USSR)

ABSTRACT:

As is well known some lizard species are able to regenerate their extremities imperfectly. The species mentioned in the title has this property (Refs 3,7). With the reptiles these processes are insufficiently investigated in contrast to amphibians (Refs 6,8). Since the lizards belong to the most inferior terrestrial amniote vertebrates, the greatest part of which has lost the said property, the problem mentioned is interesting. Its results must contribute to the comprehension of the alterations to which the regeneration processes are subjected under the conditions of the manner of living on land. With the first series of the said lizards the right hind-legs were amputated in the distale 1/3 of the upper part of the thigh. The material was fixed on the 1st, 2nd, 5th, 7th, 10th, 12th, 15th, 20th, 30th, 45th, 60th, 106th, and 120th day after the amputation. In

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the second series the extremities were amputated in an oblique cut whereby the amputation surface was enlarged. The dependence of the regeneration on the size of this surface was studied. Figures 1-3 show microphotographs of the regenerates. The results of the investigations testify that the main steps of the regeneration of an extremity of the mentioned lizard are like the regeneration steps of the Urodela and Anura (amphibians) with respect to some fundamental peculiarities. This apart from other notions (Ref 1) points to the fact that a distant ancestor of the land vertebrates which possessed walking extremities was capable of the regeneration. The missing of this ability at the most land vertebrates is based on the loss of this capacity in the course of the phylogenesis under conditions of the manner of living on land. This loss is not effected by a weakening of the regeneration capacity of the texture. Apparently it is a consequence of the disturbance of the texture interrelations necessary for the regeneration which were proper to the ancestors of the land vertebrates. The intensity decrease of the texture destruction especially of the skeleton in the rest of the extremities could lead to such a disturbance,

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furthermore the rapid overgrowth of the connective tissue preventing the regeneration of the muscular system and the growing of the nerves into the epidermis cap. There are 3 figures and 15 references, 7 of which are Soviet.

ASSOCIATION:

Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo
(Khar'kov State University imeni A. M. Gor'kogo)

PRESENTED:

March 11, 1959, by I. I. Shmal'gauzen, Academician

SUBMITTED:

February 19, 1959

Card 3/3

KUDOKOTSEV, V.P.

Stimulation of extremital regeneration in lizards by additional innervation. Dokl. AN SSSR 142 no.1:233-236 Ja '62. (MIRA 14:12)

1. Khar'kovskiy gosudarstvennyy universitet im. A.N. Gor'kogo
Predstavлено академиком I.I. Shmal'gauzenom.
(REGENERATION (BIOLOGY))
(EXTREMITIES (ANATOMY)—INNERVATION)

KUDOKOTSEV, V.P.

Influence of the central nervous system on the regeneration
of tissues and organs in reptiles. Dokl. AN SSSR 153 no.3:
733-736 N '63. (MIRA 17:1)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavлено akademikom I.I. Shmal'gauzenom.

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KUDOKOTSEV, V.P.

Stimulation of the regeneration process in mammalian extremities by the action of tissue extract. Nauch. dokl. vys. shkoly; biol. nauki no.3:40-43 '64 (MIRA 17:8)

1. Rekomendovana kafedroy zoologii pozvonochnykh Khar'kovskogo gosudarstvennogo universiteta imeni Gor'kogo.

KUDOKOTSEV, V.P.

Stimulation of the regeneration process in mammalian extremities by the action of tissue extract. Nauch. dokl. vys. shkoly; biol. nauki no. 3:40-43 '64 (MIRA 17:8)

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KUDOKOTSEV, V.P.; KUNTSEVICH, V.A.

Stimulation of the restorative processes by the method of
trypsin and calcium chloride treatment of the surgical wound
following amputation of external organs in mammals. Biul.
eksp. biol. i med. 60 no.9:106-109 S '65. (MIRA 18:10)

1. Biologicheskiy fakul'tet Khar'kovskogo universiteta.

KUDOYAROV, B.V., inzh.

Tendency toward brittleness in multilayer low-alloy welds
made by automatic welding under flux. Svarka 1:38-48 '58.
(MIRA 12:8)
(Steel alloys--Welding) (Electric welding) (Metallography)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8

KUDOYAROV, Docent G. Kh.

"Partial Transplantation of the Corneal Envelope Complicated by a Displacement of the Vitreous Body." Vest. Oftalmol., No. 5, 1949.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8"

KUDOYAROV, G.Kh., dotsent

Results of studying the onset and course of trachoma. Vest. oft.
(MLRA 8:10)
34 no. 4:17-20 Jl-Ag '55.

1. Is Bashkirskogo nauchno-issledovatel'skogo trachomatosnogo
instituta (dir.dotsent G.Kh.Kudoyarov, nauchnyy rukovoditel'
zasluzhennyy deyatel' nauki prof. V.I.Spasskiy)
(TRACHOMA, physiology.
form & course)

USSR / Virology. Viruses of Man and Animals. Chlamydia.

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 99187

Author : Kudoyarov, G. Kh.
Inst : State Scientific Research Institute for Eye Diseases
Title : On Question of Differential Diagnosis of the Acute
Incipient Period of Trachoma and Conjunctivitis with
Inclusions

Orig Pub : Uch. zap. i inform. metod. materialy. Gos. n.-i
in-t glazn. boleznyay, 1957, No 5, 78-81

Abstract : No abstract given

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SYSOYEV, Y.; KUDOYAROV, G.

First All-China Conference on the Control of Trachoma. Vest.oft.
72 no.2:52-55 Mr-Apr '59. (MIRA 12:4)
(HARBIN, CHINA--CONJUNCTIVITIS, GRANULAR--CONGRESSES)

KUDOYAROV, G.Kh.

Differential diagnosis of spring catarrh and trachoma. Vest. oft.
(MIRA 14:1)
73 no. 3:11-18 My-Je '60.
(CONJUNCTIVITIS)

KUDOYAROV, G. Kh.

Doc Med Sci - (diss) "Appearance and course of trachoma." Kuybyshev, 1961. 22 pp; (Kuybyshev State Medical Inst); 250 copies; price not given; (KL, 6-61 sup, 235)

KUDOVAROV, G.Kh., dotsent; CHEMODANOVA, L.Ye., nauchnyy sotrudnik

Cataract extraction in glaucomatous eyes. Vest.oft. no.4:24-
29 '61. (MIRA 14:11)

1. Kafedra glaznykh bolezney Bashkirskogo gosudarstvennogo medi-
tsinskogo instituta, Bashkirskiy nauchno-issledovatel'skiy
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(GLAUCOMA) (CATARACT)

KUDOYAROV, G.Kh., dotsent; MESHCHEROVA, N.Kh., kand.med.nauk

Cytological picture in the acute primary stage of trachoma.
Oft. zhur. 16 no.1:7-11 '61. (MIRA 14:3)

1. Iz Bashkirskogo nauchno-issledovatel'skogo trakhomatognogo
instituta.
(CONJUNCTIVITIS, GRANULAR)

BONDARENKO, L.A.; KUDOYAROV, G.Sh.; YAKOVLEVA, Ye.I.

Problems of the transportation of petroleum products from
Bashkiria. Trudy NIITransneft' no.3:182-188 '64.
(MIRA 18:2)

BONDARENKO, L.A.; KUDOYAROV, G.Sh.

Necessity of constructing the Ufa-Kuybyshev pipelines. Neft.
khoz. 40 no.10:62-64 0 '62. (MIRA 16:7)

(Pipelines)

BONDARENKO, L.A.; KUDOYAROV, G.Sh.

Methods for the determination of the level of mechanization in
the transport and storage of petroleum and petroleum products.
Transp. i khran. nefti pt. c no.2:34-37 '63. (MIA 17:10)

1. Nauchno-issledovatel'skiy institut po transportu i khraneniyu
nefti i neftoproductov.

BONDARENKO, L.A.; KUDOYAROV, G.Sh.

Centralized base for Ufa petroleum refineries. Transp. i khran.
nefti no.1:30-32 '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut po transportu i khraneniyu
nefti i nefteproduktov.

YAKOVLEVA, Ye.I.; KUDOYAROV, G.Sb.

Economic efficiency of the water transportation of mazut with
internavigational storage. Trudy NIITransneft' no.3:189-192
'64. (MIRA 18:2)

MIKHAYLOV, B.V., kandidat tekhnicheskikh nauk; LEMEKHOV, V.N., inzhener;
KUDOTAROV, L.I., inzhener.

Use of electric heating in concrete work during the winter
of 1955-1956. Mekh. stroi. 13 no.8:29-3 of cover Ag '56.
(MLRA 9:10)

(Concrete construction--Cold weather conditions)

KUDOYAROV, L.I., inzh.

Precast reinforced-concrete structural elements. Energ.stroi.
no.5:173-177 '58. (MIRA 12:5)

1. Nachal'nik otdeleniya OISMK.
(Volga Hydroelectric Power Station--Precast concrete)

KUDOYAROV, L.I., inzh.

Letter to the editor. Energ.stroi. no.15:66-67 '59.
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1. Nachal'nik Laboratorii spetsial'nykh metodov
issledovaniya Vsesoyuznogo nauchno-issledovatel'skogo
instituta nerudnoy promyshlennosti.
(Electric welding—Production standards)
(Reinforced concrete)

KUDOYAROV, L.I., kand. tekhn. nauk

Preparation of concrete aggregates in winter. Bet. i shel.-
bet. 9 no.3:108-112 Mr '63. (MIRA 16:4)

(Aggregates (Building materials)—Cold weather
conditions)

ALEKSEYEV, G.P.; ANDON'YEV, V.S.; ARNGOL'D, A.V.; BASKIN, S.M.;
BASHMAKOV, N.A.; BEREZIN, V.D.; BERMAN, V.A.; BIYANOV, T.P.;
GORBACHEV, V.N.; GRECHKO, I.A.; GRINBUKH, G.S.; GROMOV, M.F.;
GUSEV, A.I.; DEMENT'YEV, N.S.; DMITRIYEV, V.P.; DUL'KIN, V.Ya.;
ZVANSKIY, M.I.; ZENKEVICH, D.K.; IVANOV, B.V.; INTAKIN, A.Ya.;
ISAYENKO, P.I.; KIPRIYANOV, I.A.; KITASHOV, I.S.; KOZHEVNIKOV,
N.N.; KORMYAGIN, B.V.; KROKHIN, S.A.; KUDOYAROV, L.I.;
KUDRYAVTSEV, G.N.; LARIN, S.G.; LEBEDEV, V.P.; LEVCHENKOV,
P.N.; LEMZIKOV, A.K.; LIPGART, B.K.; LOPAREV, A.T.; MALYGIN,
G.F.; MILOVIDOVA, S.A.; MIRONOV, P.I.; MIKHAYLOV, B.V., kand.
tekhn. nauk; MUSTAFIN, Kh.Sh., kand. tekhn. nauk; NAZIMOV, A.D.;
NEFEDOV, D.Ye.; NIKIFOROV, I.V.; NIKULIN, I.A.; OKOROCHKOV, V.P.;
PAVLENKO, I.M.; PODROBINSKIK, G.M.; POLYAKOV, G.Ya.; PUTILIN, V.S.;
RUDNIK, A.G.; RUMYANTSEV, Yu.S.; SAZONOV, N.N.; SAZONOV, N.F.;
SAULIDI, I.P.; SDOENIKOV, D.V.; SEMENOV, N.A.; SKRIPCHINSKIY, I.I.;
SOKOLOV, N.F.; STEPANOV, P.P.; TARAKANOV, V.S.; TREGUBOV, A.I.;
TRIGER, N.L.; TROITSKIY, A.D.; FOKIN, F.F.; TSAREV, B.F.; TSETSULIN,
N.A.; CHUBOV, V.Ye., kand. tekhn. nauk; ENGEL', F.F.; YUROVSKIY,
Ya.G.; YAKUBOVSKIY, B.Ya., prof.; YASTREBOV, M.P.; KAMZIN, I.V., prof.,
glav. red.; MALYSHEV, N.A., zam. glav. red.; MEL'NIKOV, A.M., zam.
glav. red.; RAZIN, N.V., zam. glav. red. i red. toma; VARPAKHOVICH,
A.F., red.; PETROV, G.D., red.; SARKISOV, M.A., prof., red.;
SARUKHANOV, G.L., red.; SEVAST'YANOV, V.I., red.; SMIRNOV, K.I.,
red.; GOTMAN, T.P., red.; BUL'DYAYEV, N.A., tekhn. red.

(Continued on next card)

ALEKSEYEV, G.P.---(continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaya gidroelektrostantsiya; tekhnicheskii otchet o proektirovani i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of construction and assembly work] Organizatsiya i proizvodstvo stroitel'nomontazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L. Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin).

(Volga Hydroelectric Power Station (Lenin)--Design and construction)

31061. KUDOYAROV, L. KH.

Operatsiya chastichnoy skvoznoy peresadki rogovoy obolochki pri oslo
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s. 14-16

ZHEREBIN, B.N.; MISHIN, P.P.; KUDOYAROV, M.S.; SUKHENKO, S.I.; RASKIN, V.Z.;
OSTROUKHOV, M.Ya.; RAKOV, V.V.

Experimental blast furnace smelting using coke from large-capacity
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1. Kuznetskiy metallurgicheskiy kombinat (for Raskin).
2. Chelyabinskii institut stali (for Ostroukhov). 3. Kuznetskiy
filial Vostochnogo uglekhimicheskogo instituta (for Rakov).

SLINCHEKO, Ye.V.; YARMOLINSKIY, N.P.; KUDOYAROV, M.S.; AYAN'YEV, P.V.

Blast furnace operation with evaporation cooling. Metallurg
7 no.7:9-11 Jl '62. (MIRA 15:7)

1. Kuznetskiy metallurgicheskiy kombinat.
(Blast furnaces--Cooling)

ZHEREBIN, B.N.; KUDOYAROV, M.S.; SLINCHENKO, Ye.V.; POLYANSKIY, D.S.

Operation of blast furnaces with a capacity of 1719 m³. Stal'
22 no.3:210-215 Mr '62. (MIRA 15:3)
(Blast furnaces)

ZHEREBIN, B.N.; DEMBOVETSKIY, V.P.; KUDOYAROV, M.S.; MISHIN, P.P.

Studying blast furnace operations with the blowing of coke
oven gas into the hearth. Stal' 25 no.4:293-298 Ap '65.
(MIRA 18:11)

1. Kuznetskiy metallurgicheskiy kombinat i Sibirskiy
metallurgicheskiy institut.

KUDOYAROV, R. G.: Master Med Sci (diss) -- "Material on the epidemiology of
[REDACTED] trachoma under conditions of mass treatment (Biomicroscopic investigations on
the foci of trachoma of the Bashkir ASSR)". Samarkand, 1958. 24 pp (Samarkand
State Med Inst im Acad I. P. Pavlov), 200 copies (KL, No 10, 1959, 128)

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Non-freezing ice meter. Vod.i san. tekhn. no.10:35 0 '62.
(MIRA 15:12)
(Pipelines)

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Dissertation: "Delivery in a Low Transverse Presentation of the Head." Cand Med Sci,
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SO: SUM 318, 23 Dec 1954

KUDR, J.

KUDR J.

Vysledky chirurgické lečby cholelithiásy. /Postoperative con-
ditions in patients operated for cholelithiasis/ Ces. lek. česk.
89:13 31 Mar 50 p. 372-7.

1. Of the Surgical Clinic at Hradec Králové (Head -- Prof.
Jan Bedrka, M.D.).

CML 19, 1, July 50

KUDR, J.

Modern therapy of burns. *Prakt. lek.*, Praha 31 no. 2:36-38 20 Jan
1951. (CLML 22:3)

1. Of the Surgical Clinic (Head--Prof. J. Bedrna, M. D.) of Charles
University Branch in Hradec Kralove.

Excerpta Medica Sec 9 Surgery Vol. 9/6 June 55

3117. KUDR J. Chirurg. Klin. pohotky lek. Fak. Univerzity Karlovy. *Příspěvek
k patologii paternitní hemangiomy. Contribution to the clinical as-
pect of hemangioma of the liver. ROZHL. CHIR. 1954, 33/9
(467-471)

KUDR, Jaroslav, As MUDr

Spontaneous degastroenterostomy. Cas. lek. cesk. 93 no. 44:1225-
1227 20 Oct 54.

1. Z chirurgicke kliniky poboicky lekarske fakulty K U v Hradni
Kralove. Prednosta prof. MUDr J. Bedrna.
(PEPTIC ULCER, surgery,
gastroenterostomy, postop. closure of anastomosis)

KUDR, Jaroslav, MUDr.

Acute thrombophlebitic necrosis of abdominal skin. Cas. lek. cesk.
95 no.20:536-540 18 May 56.

1. Z chirurgickeho oddeleni OUNZ Rychnov n. Kn. Prednosta MUDr.
Jaroslav Kudr, krajsky chirurg.
(VARICOSE VEINS, compl.
thrombophlebitis, influenza & necrosis of abdom. skin. (Cx))
(THROMBOPHLEBITIS, compl.
varicose veins, influenza & necrosis of abdom. skin (Cx))
(INFLUENZA, compl.
thrombophlebitis, varicose veins, & necrosis of abdom.
skin. (Cx))
(NECROSIS,
skin of abdom., with thrombophlebitis, varicose veins
& influenza (Cx))
(SKIN, dis.
necrosis of abdom. skin, with thrombophlebitis, varicose
veins & influenza (Cx))
(ABDOMEN, dis.
same.)

KUDR, Jaroslav, Dr.

~~Colles fracture. Acta chir. orthop. traum. czech. 24 no.2:
122-129 Mar 57.~~

1. Krajsky chirurg OUNZ Rychnov nad Kněžnou.
(RADIUM, fract.
Colles fract., ther. & follow-up (Cs))

KUDR, Jaroslav, MUDr., krajsky chirurg.

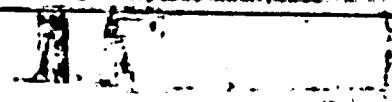
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1. Chirurgické oddelení OUNZ v Rychnově n. Kn.
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intraperitoneal admin., contraindic. (Cz))

SKALPIERUNG Vol 13 8 Survey August 59

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zur Behandlung volliger Skalpierung des Schädelns. Kudr J. and Nikola
M. Chir. Abt., Bezirkskrankenhaus, Rychov n. Kn., CSR - ZBL-CHIR.
1958, 83/11 (686-890) Illus. 6

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secured on the one hand by immediate surgery with the object of definitive cover-
age of the skin defect after skull scalping, on the other hand by the rapid prepara-
tion of the scalp, where a three-litre pan served as support for the scalp.



KUDR, Jaroslav

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Jaroslav Kudr, krajsky chirurg.
(AUTOPSY)
(SURGERY OPERATIVE)

KUDR, Jaroslav

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1. Okresni ustanov narodniho zdravi v Rychmove nad Kneznou.

(DUODENUM diseases)
(DIVERTICULOSIS surgery)

BEDRNA, J.; KUDR, J.

Surgical treatment of acute thrombophlebitis of the subcutaneous veins and varicosities of the legs. Rozhl. chir. 40 no.12:802-806 '61.

1. Chirurgicke oddeleni OUNZ v Rychnove n. Kn., prednosta MUDr.
J. Kudr, C. Sc.
(LEG blood supply) (VARICOSE VEINS surgery)
(THROMBOPHLEBITIS surgery)

KUDR, J.; USAK, J.

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C. Sc.

(SYMPATHECTOMY)

STARK, Jaroslav; KUDR, Jaroslav

Surgical therapy of lateral epicondylitis of the humerus. Kozhl.
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1. Chirurgicke oddeleni OUNZ v Rychnove n. Kn., prednosta MUDr. J. Kudr,
CSc.

(HUMERUS)

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(ELBOW)

KUDR, J.; UZAK, J.

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KUDIEL, J.; STARK, J.

Our experiences with surgery of the acutely inflamed gallbladder.
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1. Chirurgické oddelení Obvodního národního nemocničního zdraví v
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KUDRA, G.; BORISOV, U.

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Prof.-tekh. obr. 22 no.3:10-11 Mr '65. (MIRA 18:7)

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Standardization of equipment. p. 9.

80: Monthly list of East European Accessions, (ERAL), LC, Vol. 4, No. 9, Sept. 1955
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XUDRA, J.; JANÍČEK, V. - Vol. 3, no. 2, Feb. 1955. STROJIRENSKA VYROBA

Hand lever clamps. p. 55.

80: Monthly list of East European Accessions, (REAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

KLOTH, J.; JANTICK, V.

Resistance welding machines used in the fabrication of whole-metal carriages, p. 76
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"Fastening materials in working with sheet metal; manual fastening: screws." p. 135

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Jandírek, Z. Joint spring and wedge grips; fixing elements for sheet metal. p. 233.
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Correct and incorrect technical terms. p. 137.
SLOVENSKÉ VYDAVATEĽSTVÁ, Bratislava, Vol. 7, no. 5, June 1955.

FO: Monthly List of Post-European Accessions, (MIA), M, Vol. 1, no. 10, Oct. 1955,
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Fixing manual, with lever tools, the materials for sheet metalworking. p. 331

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Uncl.

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Fastening materials in working with sheet metal; manual fastening: lever tools.
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Uncl.

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Fastening materials in working with sheet metal; manual fastening: level tools.
p. 479

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Monthly List of East European Accessions (EFAI), LC. Vol. 8, No. 9, September 1959
Uncl.

Handling sheet metal during production. p. 254. "TECHNIK U VYKU"
(Slatne nakladatelstvo technickej literatury) Vol. 6, no. 6, June., 1956.

SOURCE: East European Acquisitions List, Vol. 5, no. 9, September 1956

KUDRA, Josef

Resistance spot welding equipment. Zvaranie 12 no. 12:
347-352 D '63.

1. Zavodni pobočka Československa vedecko-technicke
společnosti, Tatra, n.p., Koprivnice.

KUDRA, Josef

Advanced method of spot welding of automobile bodies.
Automobil Cz 8 no. 3: 19-24 Mr '64.

1. Tatra, Koprivnice.

30(1)

SOV/21-59-5-23/25

AUTHORS: Gershenson, S.M., Karpov, A.Ye. and Kudra, M.S.

TITLE: On the Activation of Silkworm Polyhedral Virus by Fluoride Treatment

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 5,
pp 550-553 (USSR)

ABSTRACT: The Vago's Ref. 3-5 method of activating the latent virus of silkworm nuclear polyhedrosis (jaundice) by adding fluoride compounds to the food of larvae in order to eliminate carriers of the latent virus, was put by the authors to test. It was found out that such treatment results in an activation of the latent virus in only some of the individuals having it and only when they had been weakened before by unfavorable ecological conditions. A further increase of dosage of fluoride salts proved to be harmful to the larvae and led to perdition from bacterial diseases and physiological debility. A table on page 551 shows the results of the experiments. There is 1 table

Card 1/2

SOV/21-59-5-23/25

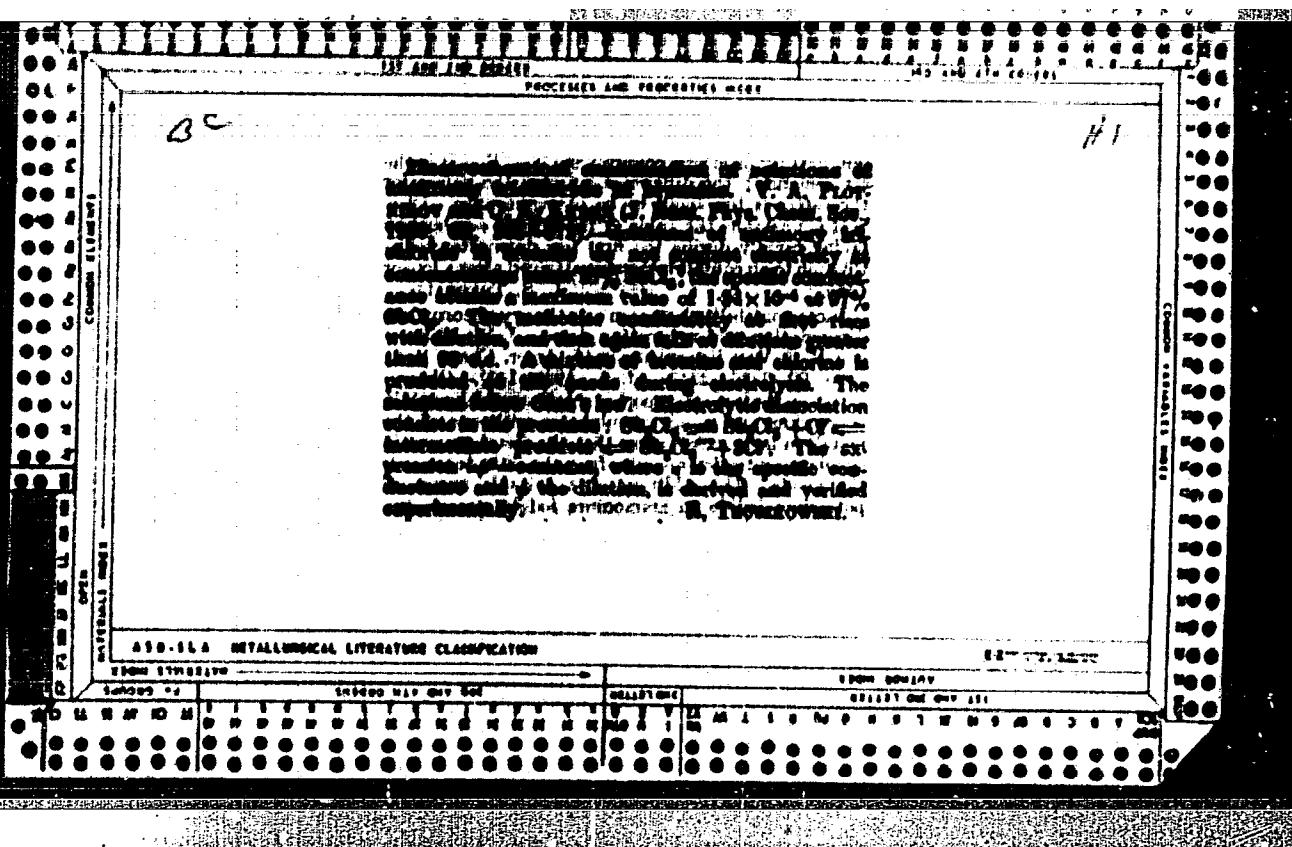
On the Activation of Silkworm Polyhedral Virus by Fluoride Treatment
and 6 references, 1 of which is Soviet and 5 Italian.

ASSOCIATION: Institut zoologii AN UkrSSR (Institute of Zoology of the
AS UkrSSR)

PRESENTED: By V.G. Kas'yanenko, Member of the AS UkrSSR

SUBMITTED: December 29, 1958

Card 2/2



Cp

6

The reduction of zinc oxide in the presence of metallic copper. V. A. Ponomarov and O. K. Kurna. *J. Gen. Chem. (U. S. S. R.)* 1, 1075 (1931). - When a mixt. of ZnO and $0.5\% Cu$ is heated in a stream of H_2 , Zn begins to sep. on the Cu surface at 415° . If CO replaces H_2 , reduction begins at 380° , and if a mixt. of CO and H_2 is used, at $400-450^\circ$. In each case, the amt. of Zn formed increases with temp., but the layer on the Cu surface is not thick enough to affect its cond. Zn appears even when the Cu is not touching the ZnO . This indicates the formation of a volatile compd., possibly ZnH_2 , which decomposes on Cu . Probably this compd. and Cu_2CO_3 are concerned in $MoOH$ synthesis.

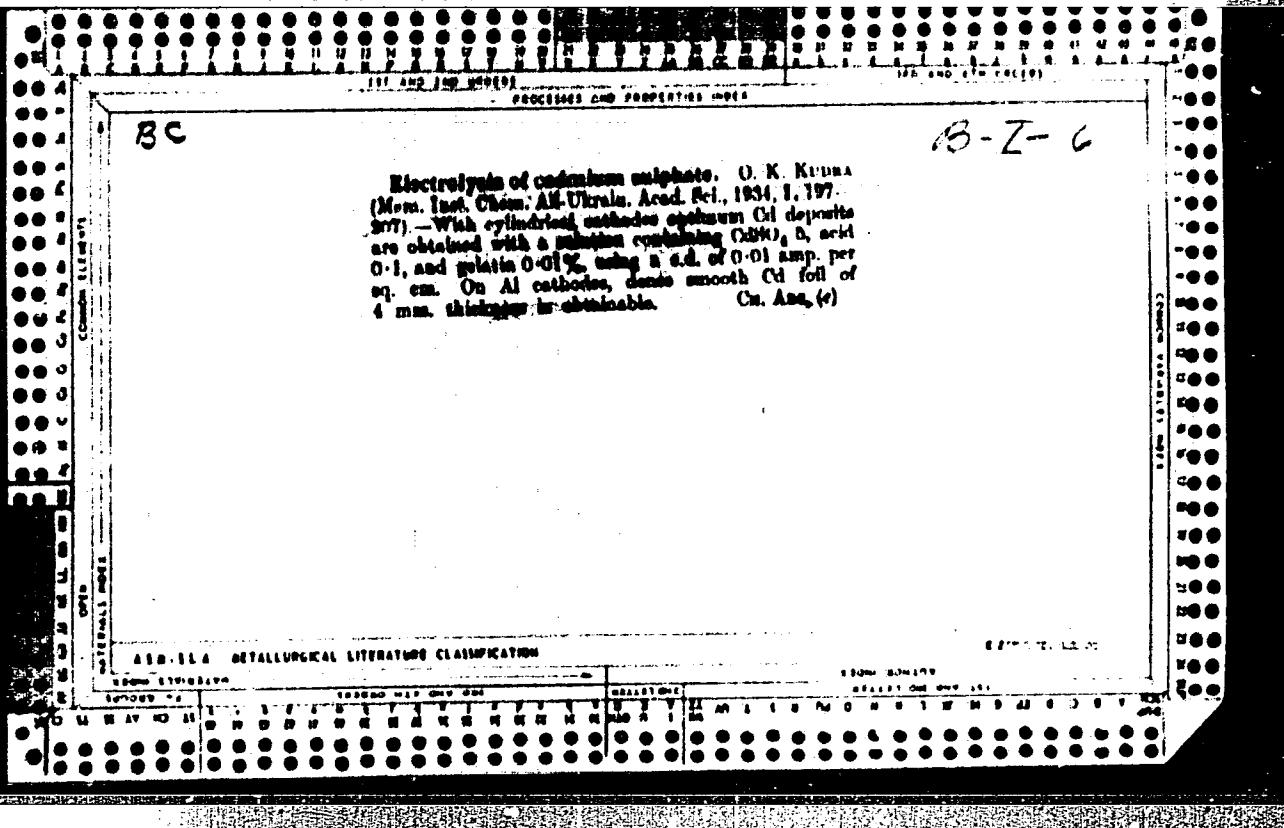
H. M. Latcutter

150-114 METALLURGICAL LITERATURE CLASSIFICATION

SC

Cathode processes in electrolysis of copper salts. G. V. Kostyuk. Sov. Inst. Otsn. All-Ukrain. Akad. Nauk (Kiev, Ukraine).—The deposition on the cathode of a copper salt depends of Cu at high c.d. (c) does not depend on the density, but after an interval of time τ the current I of Cu^{2+} of a given solution is given by $I = I_0 \cdot \log \alpha + \beta \log \tau + \gamma$, where α and β are constants for $CuSO_4$, and γ , β , and γ are constants for $CuCl_2$. B. T.

A10-114 METALLURGICAL LITERATURE CLASSIFICATION



BC

BT-B

Electrolytic preparation of alumina from clay.
V. A. Piorunov, O. K. Kurna, D. P. Zemcovitch
and I. M. Piontovskii. *Ind. Russ.*, 1934, 10,
No. 10, 50-54.—65% of the Al content of kaolin
percolated at 300° is extracted by 1% 91—95% by
4%, and 90-94% by 10% H_2SO_4 at 75°. The solution,
containing $Al_2(SO_4)_3$ (4-5%), using 4% H_2SO_4 , $Fe_2(SO_4)_3$,
and Na_2SO_4 , is electrolyzed, when $Al(OH)_3$ is pptd. in
the anolyte (A) and H_2SO_4 is regenerated in the catho-
lyte (C). The filtered A, containing Na_2SO_4 , is returned
to C, yielding further H_2SO_4 .
R. T.

410-11A METALLURGICAL LITERATURE CLASSIFICATION

140-08-44	140-08-44	140-08-44	140-08-44
0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9

CA

PROCESSED AND PROPERTIES

4

Examination of cathode sludges obtained when using currents of high density. Causes of formation of spongy cathode deposits. O. Kudry and K. Ivanov. *Mos. Inst. Chem. All-Ukrainian Acad. Sci.* 1, 299-310, 311-19 (1953). - X-ray exam. of the sludges obtained from sq. $Cu(NO_3)_2$, $Cu(O_2)$, $CuCl_2$, $ZnCl_2$, $Zn(NH_3)_4$, $Cd(NO_3)_2$, and $AgNO_3$ shows that these are mixts. of the metals and their lower oxides (Cu_2O , ZnO , Cd_2O , Ag_2O), const. adcribed H. The mechanism of formation of the oxides is discussed. Spongy, but not bright, deposits of Cd and Zn contain oxides, whence it is concluded that failure to obtain adherent metallic deposits is assoe. with oxidative processes taking place at the cathode (probably due to anions), under conditions of excessively low or high c. d.

B. C. A.

ASA-11A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PRINTED AND INDEXED 1961

4

(Handwritten mark)

Cathode reactions during electrolysis of copper salt solutions. O. K. Kudha. *J. Gen. Chem. (U. S. S. R.)* 5, 121-130 (1935); *Mem. Inst. Chem. All-Ukrain. Acad. Nauk* 1, 81-102 (1934). - When a salt soln. of Cu is electrolyzed at a high c. d., the deposit on the cathode is at first lustrous, but after a few sec. it abruptly changes into a black spongy coating, the change being accompanied by a small but definite change in voltage. The interval of time t between the beginning of electrolysis and the abrupt change in the deposit depends on the concn., C , of the bath and on the c. d. δ ; hence this method can be used for detn. of Cu in solns. The relation is expressed by the formula: $\log C = \alpha \log \delta + \beta \log t + \gamma$, where α , β and γ are constns. characteristic of a given salt. If δ is const., C dep. t . This method was tested for solns. of CuSO_4 , CuCl_2 and $\text{Cu}(\text{N}_3)_2$, by using a Pt cylindrical cathode (1.5 mm. in diam.), surrounded by a Cu anode. δ varied between 0.200 and 6.470 amperes/sq. mm. and t between 1.6 and 22.4 sec. The temp. was kept const. at 10°.

S. I. Makovsky

A10-514 METALLURGICAL LITERATURE CLASSIFICATION

FROM 1170-12100	1170-03 1170-04 1170-05 1170-06 1170-07 1170-08 1170-09 1170-10 1170-11 1170-12 1170-13 1170-14 1170-15 1170-16 1170-17 1170-18 1170-19 1170-20 1170-21 1170-22 1170-23 1170-24 1170-25 1170-26 1170-27 1170-28 1170-29 1170-30 1170-31 1170-32 1170-33 1170-34 1170-35 1170-36 1170-37 1170-38 1170-39 1170-40 1170-41 1170-42 1170-43 1170-44 1170-45 1170-46 1170-47 1170-48 1170-49 1170-50 1170-51 1170-52 1170-53 1170-54 1170-55 1170-56 1170-57 1170-58 1170-59 1170-60 1170-61 1170-62 1170-63 1170-64 1170-65 1170-66 1170-67 1170-68 1170-69 1170-70 1170-71 1170-72 1170-73 1170-74 1170-75 1170-76 1170-77 1170-78 1170-79 1170-80 1170-81 1170-82 1170-83 1170-84 1170-85 1170-86 1170-87 1170-88 1170-89 1170-90 1170-91 1170-92 1170-93 1170-94 1170-95 1170-96 1170-97 1170-98 1170-99 1170-100 1170-101 1170-102 1170-103 1170-104 1170-105 1170-106 1170-107 1170-108 1170-109 1170-110 1170-111 1170-112 1170-113 1170-114 1170-115 1170-116 1170-117 1170-118 1170-119 1170-120 1170-121 1170-122 1170-123 1170-124 1170-125 1170-126 1170-127 1170-128 1170-129 1170-130 1170-131 1170-132 1170-133 1170-134 1170-135 1170-136 1170-137 1170-138 1170-139 1170-140 1170-141 1170-142 1170-143 1170-144 1170-145 1170-146 1170-147 1170-148 1170-149 1170-150 1170-151 1170-152 1170-153 1170-154 1170-155 1170-156 1170-157 1170-158 1170-159 1170-160 1170-161 1170-162 1170-163 1170-164 1170-165 1170-166 1170-167 1170-168 1170-169 1170-170 1170-171 1170-172 1170-173 1170-174 1170-175 1170-176 1170-177 1170-178 1170-179 1170-180 1170-181 1170-182 1170-183 1170-184 1170-185 1170-186 1170-187 1170-188 1170-189 1170-190 1170-191 1170-192 1170-193 1170-194 1170-195 1170-196 1170-197 1170-198 1170-199 1170-200 1170-201 1170-202 1170-203 1170-204 1170-205 1170-206 1170-207 1170-208 1170-209 1170-210 1170-211 1170-212 1170-213 1170-214 1170-215 1170-216 1170-217 1170-218 1170-219 1170-220 1170-221 1170-222 1170-223 1170-224 1170-225 1170-226 1170-227 1170-228 1170-229 1170-230 1170-231 1170-232 1170-233 1170-234 1170-235 1170-236 1170-237 1170-238 1170-239 1170-240 1170-241 1170-242 1170-243 1170-244 1170-245 1170-246 1170-247 1170-248 1170-249 1170-250 1170-251 1170-252 1170-253 1170-254 1170-255 1170-256 1170-257 1170-258 1170-259 1170-260 1170-261 1170-262 1170-263 1170-264 1170-265 1170-266 1170-267 1170-268 1170-269 1170-270 1170-271 1170-272 1170-273 1170-274 1170-275 1170-276 1170-277 1170-278 1170-279 1170-280 1170-281 1170-282 1170-283 1170-284 1170-285 1170-286 1170-287 1170-288 1170-289 1170-290 1170-291 1170-292 1170-293 1170-294 1170-295 1170-296 1170-297 1170-298 1170-299 1170-300 1170-301 1170-302 1170-303 1170-304 1170-305 1170-306 1170-307 1170-308 1170-309 1170-310 1170-311 1170-312 1170-313 1170-314 1170-315 1170-316 1170-317 1170-318 1170-319 1170-320 1170-321 1170-322 1170-323 1170-324 1170-325 1170-326 1170-327 1170-328 1170-329 1170-330 1170-331 1170-332 1170-333 1170-334 1170-335 1170-336 1170-337 1170-338 1170-339 1170-340 1170-341 1170-342 1170-343 1170-344 1170-345 1170-346 1170-347 1170-348 1170-349 1170-350 1170-351 1170-352 1170-353 1170-354 1170-355 1170-356 1170-357 1170-358 1170-359 1170-360 1170-361 1170-362 1170-363 1170-364 1170-365 1170-366 1170-367 1170-368 1170-369 1170-370 1170-371 1170-372 1170-373 1170-374 1170-375 1170-376 1170-377 1170-378 1170-379 1170-380 1170-381 1170-382 1170-383 1170-384 1170-385 1170-386 1170-387 1170-388 1170-389 1170-390 1170-391 1170-392 1170-393 1170-394 1170-395 1170-396 1170-397 1170-398 1170-399 1170-400 1170-401 1170-402 1170-403 1170-404 1170-405 1170-406 1170-407 1170-408 1170-409 1170-410 1170-411 1170-412 1170-413 1170-414 1170-415 1170-416 1170-417 1170-418 1170-419 1170-420 1170-421 1170-422 1170-423 1170-424 1170-425 1170-426 1170-427 1170-428 1170-429 1170-430 1170-431 1170-432 1170-433 1170-434 1170-435 1170-436 1170-437 1170-438 1170-439 1170-440 1170-441 1170-442 1170-443 1170-444 1170-445 1170-446 1170-447 1170-448 1170-449 1170-450 1170-451 1170-452 1170-453 1170-454 1170-455 1170-456 1170-457 1170-458 1170-459 1170-460 1170-461 1170-462 1170-463 1170-464 1170-465 1170-466 1170-467 1170-468 1170-469 1170-470 1170-471 1170-472 1170-473 1170-474 1170-475 1170-476 1170-477 1170-478 1170-479 1170-480 1170-481 1170-482 1170-483 1170-484 1170-485 1170-486 1170-487 1170-488 1170-489 1170-490 1170-491 1170-492 1170-493 1170-494 1170-495 1170-496 1170-497 1170-498 1170-499 1170-500 1170-501 1170-502 1170-503 1170-504 1170-505 1170-506 1170-507 1170-508 1170-509 1170-510 1170-511 1170-512 1170-513 1170-514 1170-515 1170-516 1170-517 1170-518 1170-519 1170-520 1170-521 1170-522 1170-523 1170-524 1170-525 1170-526 1170-527 1170-528 1170-529 1170-530 1170-531 1170-532 1170-533 1170-534 1170-535 1170-536 1170-537 1170-538 1170-539 1170-540 1170-541 1170-542 1170-543 1170-544 1170-545 1170-546 1170-547 1170-548 1170-549 1170-550 1170-551 1170-552 1170-553 1170-554 1170-555 1170-556 1170-557 1170-558 1170-559 1170-560 1170-561 1170-562 1170-563 1170-564 1170-565 1170-566 1170-567 1170-568 1170-569 1170-570 1170-571 1170-572 1170-573 1170-574 1170-575 1170-576 1170-577 1170-578 1170-579 1170-580 1170-581 1170-582 1170-583 1170-584 1170-585 1170-586 1170-587 1170-588 1170-589 1170-590 1170-591 1170-592 1170-593 1170-594 1170-595 1170-596 1170-597 1170-598 1170-599 1170-600 1170-601 1170-602 1170-603 1170-604 1170-605 1170-606 1170-607 1170-608 1170-609 1170-610 1170-611 1170-612 1170-613 1170-614 1170-615 1170-616 1170-617 1170-618 1170-619 1170-620 1170-621 1170-622 1170-623 1170-624 1170-625 1170-626 1170-627 1170-628 1170-629 1170-630 1170-631 1170-632 1170-633 1170-634 1170-635 1170-636 1170-637 1170-638 1170-639 1170-640 1170-641 1170-642 1170-643 1170-644 1170-645 1170-646 1170-647 1170-648 1170-649 1170-650 1170-651 1170-652 1170-653 1170-654 1170-655 1170-656 1170-657 1170-658 1170-659 1170-660 1170-661 1170-662 1170-663 1170-664 1170-665 1170-666 1170-667 1170-668 1170-669 1170-670 1170-671 1170-672 1170-673 1170-674 1170-675 1170-676 1170-677 1170-678 1170-679 1170-680 1170-681 1170-682 1170-683 1170-684 1170-685 1170-686 1170-687 1170-688 1170-689 1170-690 1170-691 1170-692 1170-693 1170-694 1170-695 1170-696 1170-697 1170-698 1170-699 1170-700 1170-701 1170-702 1170-703 1170-704 1170-705 1170-706 1170-707 1170-708 1170-709 1170-710 1170-711 1170-712 1170-713 1170-714 1170-715 1170-716 1170-717 1170-718 1170-719 1170-720 1170-721 1170-722 1170-723 1170-724 1170-725 1170-726 1170-727 1170-728 1170-729 1170-730 1170-731 1170-732 1170-733 1170-734 1170-735 1170-736 1170-737 1170-738 1170-739 1170-740 1170-741 1170-742 1170-743 1170-744 1170-745 1170-746 1170-747 1170-748 1170-749 1170-750 1170-751 1170-752 1170-753 1170-754 1170-755 1170-756 1170-757 1170-758 1170-759 1170-760 1170-761 1170-762 1170-763 1170-764 1170-765 1170-766 1170-767 1170-768 1170-769 1170-770 1170-771 1170-772 1170-773 1170-774 1170-775 1170-776 1170-777 1170-778 1170-779 1170-780 1170-781 1170-782 1170-783 1170-784 1170-785 1170-786 1170-787 1170-788 1170-789 1170-790 1170-791 1170-792 1170-793 1170-794 1170-795 1170-796 1170-797 1170-798 1170-799 1170-800 1170-801 1170-802 1170-803 1170-804 1170-805 1170-806 1170-807 1170-808 1170-809 1170-810 1170-811 1170-812 1170-813 1170-814 1170-815 1170-816 1170-817 1170-818 1170-819 1170-820 1170-821 1170-822 1170-823 1170-824 1170-825 1170-826 1170-827 1170-828 1170-829 1170-830 1170-831 1170-832 1170-833 1170-834 1170-835 1170-836 1170-837 1170-838 1170-839 1170-840 1170-841 1170-842 1170-843 1170-844 1170-845 1170-846 1170-847 1170-848 1170-849 1170-850 1170-851 1170-852 1170-853 1170-854 1170-855 1170-856 1170-857 1170-858 1170-859 1170-860 1170-861 1170-862 1170-863 1170-864 1170-865 1170-866 1170-867 1170-868 1170-869 1170-870 1170-871 1170-872 1170-873 1170-874 1170-875 1170-876 1170-877 1170-878 1170-879 1170-880 1170-881 1170-882 1170-883 1170-884 1170-885 1170-886 1170-887 1170-888 1170-889 1170-890 1170-891 1170-892 1170-893 1170-894 1170-895 1170-896 1170-897 1170-898 1170-899 1170-900 1170-901 1170-902 1170-903 1170-904 1170-905 1170-906 1170-907 1170-908 1170-909 1170-910 1170-911 1170-912 1170-913 1170-914 1170-915 1170-916 1170-917 1170-918 1170-919 1170-920 1170-921 1170-922 1170-923 1170-924 1170-925 1170-926 1170-927 1170-928 1170-929 1170-930 1170-931 1170-932 1170-933 1170-934 1170-935 1170-936 1170-937 1170-938 1170-939 1170-940 1170-941 1170-942 1170-943 1170-944 1170-945 1170-946 1170-947 1170-948 1170-949 1170-950 1170-951 1170-952 1170-953 1170-954 1170-955 1170-956 1170-957 1170-958 1170-959 1170-960 1170-961 1170-962 1170-963 1170-964 1170-965 1170-966 1170-967 1170-968 1170-969 1170-970 1170-971 1170-972 1170-973 1170-974 1170-975 1170-976 1170-977 1170-978 1170-979 1170-980 1170-981 1170-982 1170-983 1170-984 1170-985 1170-986 1170-987 1170-988 1170-989 1170-990 1170-991 1170-992 1170-993 1170-994 1170-995 1170-996 1170-997 1170-998 1170-999 1170-1000 1170-1001 1170-1002 1170-1003 1170-1004 1170-1005 1170-1006 1170-1007 1170-1008 1170-1009 1170-1010 1170-1011 1170-1012 1170-1013 1170-1014 1170-1015 1170-1016 1170-1017 1170-1018 1170-1019 1170-1020 1170-1021 1170-1022 1170-1023 1170-1024 1170-1025 1170-1026 1170-1027 1170-1028 1170-1029 1170-1030 1170-1031 1170-1032 1170-1033 1170-1034 1170-1035 1170-1036 1170-1037 1170-1038 1170-1039 1170-1040 1170-1041 1170-1042 1170-1043 1170-1044 1170-1045 1170-1046 1170-1047 1170-1048 1170-1049 1170-1050 1170-1051 1170-1052 1170-1053 1170-1054 1170-1055 1170-1056 1170-1057 1170-1058 1170-1059 1170-1060 1170-1061 1170-1062 1170-1063 1170-1064 1170-1065 1170-1066 1170-1067 1170-1068 1170-1069 1170-1070 1170-1071 1170-1072 1170-1073 1170-1074 1170-1075 1170-1076 1170-1077 1170-1078 1170-1079 1170-1080 1170-1081 1170-1082 1170-1083 1170-1084 1170-1085 1170-1086 1170-1087 1170-1088 1170-1089 1170-1090 1170-1091 1170-1092 1170-1093 1170-1094 1170-1095 1170-1096 1170-1097 1170-1098 1170-1099 1170-1100 1170-1101 1170-1102 1170-1103 1170-1104 1170-1105 1170-1106 1170-1107 1170-1108 1170-1109 1170-1110 1170-1111 1170-1112 1170-1113 1170-1114 1170-1115 1170-1116 1170-1117 1170-1118 1170-1119 1170-1120 1170-1121 1170-1122 1170-1123 1170-1124 1170-1125 1170-1126 1170-1127 1170-1128 1170-1129 1170-1130 1170-1131 1170-1132 1170-1133 1170-1134 1170-1135 1170-1136 1170-1137 1170-1138 1170-1139 1170-1140 1170-1141 1170-1142 1170-1143 1170-1144 1170-1145 1170-1146 1170-1147 1170-1148 1170-1149 1170-1150 1170-1151 1170-1152 1170-1153 1170-1154 1170-1155 1170-1156 1170-1157 1170-1158 1170-1159 1170-1160 1170-1161 1170-1162 1170-1163 1170-1164 1170-1165 1170-1166 1170-1167 1170-1168 1170-1169 1170-1170 1170-1171 1170-1172 1170-1173 1170-1174 1170-1175 117

A study of the cathode precipitates formed at high current density. K. N. Ivanov and O. K. Kudra. *J. Phys. Chem. (U. S. S. R.)* 6, 409-77 (1935). X-ray investigation of powder-like cathode ppts. of Cu, Zn, Cd and Ag obtained from aq. solns. of the nitrates, chlorides and sulfates by electrolysis with high r.d. showed that the ppts. are disperse, sometimes pyrophoric oxide-contg. powders. The O content in the ppt. of a given metal depends on the oxidizing power of the electrolyte anion, and in general on the ease of oxidation of the metal. The crystal lattice parameters of the metals and oxides, Cu, Cd, CuO and ZnO , entering into the compn. of the ppts. are greatly increased (up to 100%) owing to the absorption of H. Zn and Ag have normal parameters.

Zelikov

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8"

4

cc

PROCEDURE AND PROPERTIES OF
Electrolysis of benzene-nitrobenzene solutions of
potassium and aluminum bromides. V. A. Plankov and
O. K. Kudina. *Mos. Inst. Chem. Technol. Trud. No. 3,*
117 RIC(1960), 11, 1-31, 27(1961), 56(1961). The yields
of K obtained by electrolysis of KBr - $AlBr_3$ in CH_2Cl_2 - CH_3NO_2
are proportional to $[KBr]$ and rise to a max. of 17% with
a mix. contg. KBr 2.0%, $AlBr_3$ 11.0%, CH_2Cl_2 6.0% and CH_3NO_2 7.0%. Electrochemical and cryoscopic study of the
systems aluminum bromide and rubidium
chloride in benzene. V. A. Plankov and L. B. Dovzhenko.
Shchekino. 1961. 177 p. The system $AlBr_3$ - $RbCl$ - CH_2Cl_2
is nonconducting and the components are not assayed.
Electrolysis of the system $AlBr_3$ - $RbCl$ - CH_2Cl_2 results in
liberation of Br at the anode and of a black, spongy mass,
contg. Al crystallites, at the cathode. Mol. wt. data
contg. Al crystallites, at the cathode. Mol. wt. data
suggest formation of a complex, probably $[AlBr_3]_2RbCl$.
Electrochemical study of the systems alkali chlorides
aluminum bromide-nitrobenzene. J. P. Stehennel.
Trud. 211 (30). % of $AlBr_3$ in CH_2Cl_2 rises with increasing
 $[MCl]$ ($M = H, Li, Na, K$) to a max. at $M = Li$, $MCl = 1$,
suggesting formation of 1:1 complexes. The decompo.
potentials rise with increasing at. wt. of M. Alkali metal
is liberated at the cathode during electrolysis. W. C. A.

Koudra, O. K.

"Etude electrochimique des bromures d'aluminium et de potassium dans un melange des solvants". Plotnikow, W. A., Koudra, O. K. et Meennij, J. F. (p. 1286)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1936, Vol. 6, No. 9

Black Silver Deposits. O. K. Kudra (Zapiski Instituta Khimii, Ukraine Akademii Nauk (Mem. Inst. Chem., Tied. Nauk. Ukrains. S.S.R.), 1937, 4, 48-50; Chem. Abstr., 1937, 31, 5088). — [In Ukrainian.] Black silver deposits at high current densities are due to deposition of complex double salts, as a result of rapid depletion of simple silver salts. — B. G.

AIA-114 METALLURGICAL LITERATURE CLASSIFICATION

ITEM NUMBER 148000 MAP DIV 647

147089 64

ITEM NUMBER

148000 MAP DIV 647

BC

2-1

Black cathodic deposits. O. K. KUDRA (J. Phys. Chem. Russ., 1917, 9, 284-291).—The time t from the beginning of the electrolysis of aq. AgNO_3 to the appearance of a black deposit is measured and represented as a function of current, (I) and o.d. (a), by $\log t = 1.053 \log a + 0.3364 \log I + 0.4247$. The formation of "black" is attributed to the discharge of complex ions (e.g., Ag_2NO_3^-). This is confirmed by a simultaneous jump in the decompo

E. R.

111 AND 112.000001 PROCESSES AND PROPERTIES

C-1

Cathode processes. New method for the study of solutions. O. K. Kupna (Mem. Inst. Chem. Ukraine Acad. Sci., 1935, 4, 381-393).—The relation $C = sv^2$, in which v is the time needed for the formation of a black powdery deposit on the cathode (cf. A., 1937, I, 349), C is the cation concn., and s the s.d., is deduced. The formula is in agreement with the results of experiments with eq. $ZnSO_4$, $AgNO_3$, and $CuCl_2$. The measurement of the time required for blackening of the cathode can be used to calculate the cation concn. F. L. U.

430-114 METALLURGICAL LITERATURE CLASSIFICATION

1100-1110

1120-1130

1140-1150

1160-1170

1180-1190

1190-1200

1210-1220

1230-1240

1250-1260

1270-1280

1290-1300

1310-1320

1330-1340

1350-1360

1370-1380

1390-1400

1410-1420

1430-1440

1450-1460

1470-1480

1490-1500

1510-1520

1530-1540

1550-1560

1570-1580

1590-1600

1610-1620

1630-1640

1650-1660

1670-1680

1690-1700

1710-1720

1730-1740

1750-1760

1770-1780

1790-1800

1810-1820

1830-1840

1850-1860

1870-1880

1890-1900

1910-1920

1930-1940

1950-1960

1970-1980

1990-2000

2010-2020

2030-2040

2050-2060

2070-2080

2090-2100

2110-2120

2130-2140

2150-2160

2170-2180

2190-2200

2210-2220

2230-2240

2250-2260

2270-2280

2290-2300

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2770-2780

2790-2800

2810-2820

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2870-2880

2890-2900

2910-2920

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2950-2960

2970-2980

2990-3000

3010-3020

3030-3040

3050-3060

3070-3080

3090-3100

3110-3120

3130-3140

3150-3160

3170-3180

3190-3200

3210-3220

3230-3240

3250-3260

3270-3280

3290-3300

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3770-3780

3790-3800

3810-3820

3850-3860

3890-3900

3930-3940

3970-3980

3990-4000

4010-4020

4030-4040

4050-4060

4070-4080

4090-4100

4110-4120

4130-4140

4150-4160

4170-4180

4190-4200

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4390-4400

4430-4440

4470-4480

4510-4520

4550-4560

4590-4600

4630-4640

4670-4680

4710-4720

4750-4760

4810-4820

4850-4860

4890-4900

4930-4940

4970-4980

4990-5000

5010-5020

5030-5040

5050-5060

5070-5080

5090-5100

5010-5020

5030-5040

5050-5060

5070-5080

5090-5100

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5010-5020

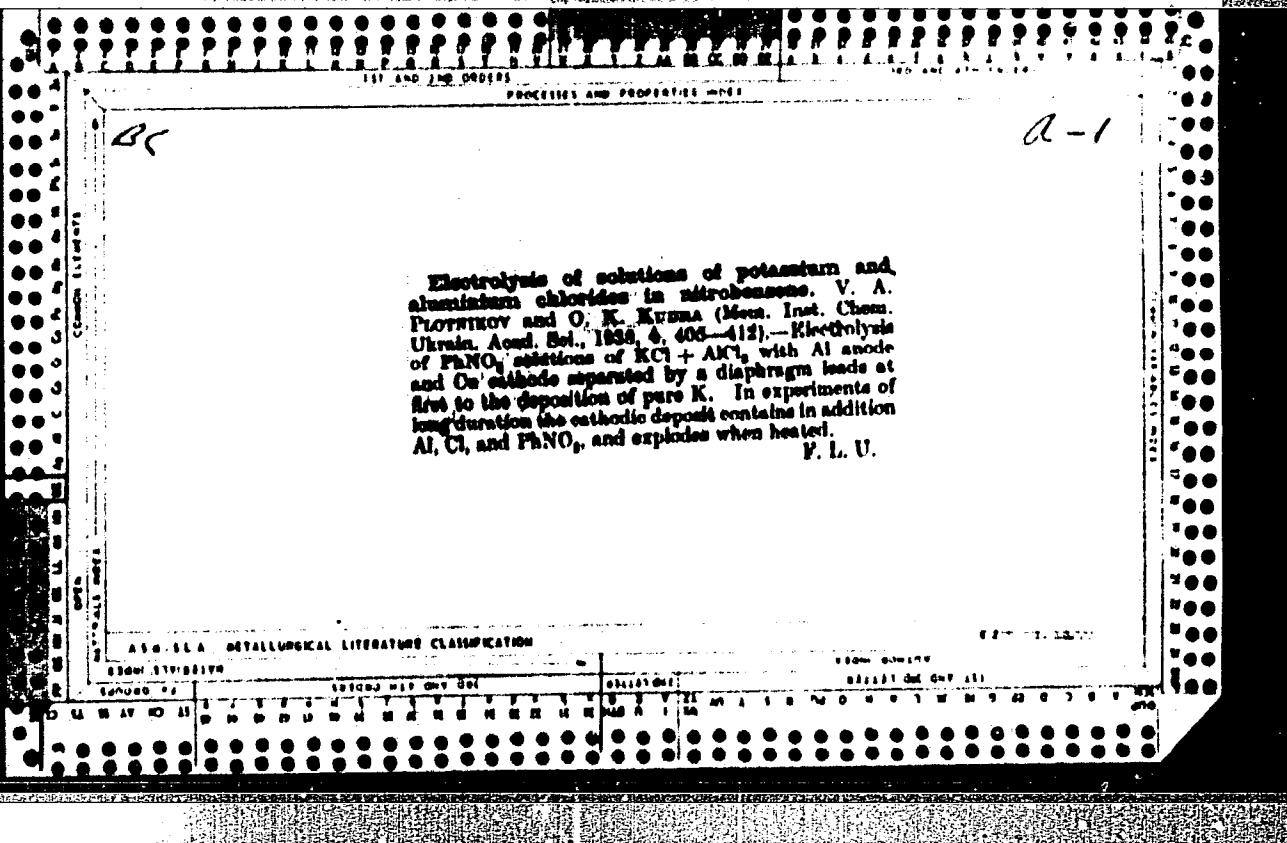
5030-5040

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5090-5100

5010-5020



BC

A-1

Decomposition potentials at various current densities. O. K. KUNEA, Mem. Inst. Chem. Ukrain. Acad. Sci., 1955, 5, 127-138).—Cu(NO₃)₂, CuCl₂, CuSO₄, CdSO₄, and AgNO₃ were used. For c.d. leading to a smooth metal deposit the decomp. potential is independent of the concn. When the c.d. is so high that a black powder is deposited, the decomp. potential decreases with increasing concn. The theory is advanced that the black powders are due to discharge of complex ions.

J. J. B.

ASA 318 METALLURGICAL LITERATURE CLASSIFICATION

BC

A-1

Influence of temperature on cathode processes. D. V. Klymenko. Inst. Chern. Ukrain. Acad. Sci., Kiev, USSR. — The const. C at which black deposits of Cu or Cu₂N are obtained at the cathode during electrolysis varies according to the formula $C = a + b/T$ (T = time elapsed at moment of appearance of the deposit). With rising temp. the rel. of C rises, according to the empirical equation $|C_0 - C_1| = 0.0215007$. The C -temp. curves are a series of straight lines, the angle of inclination to the T axis of which rises with increasing concn. of the salt. The curves obtained for equiv. concns. of different salts (CuSO_4 , $\text{Cu}(\text{NO}_3)_2$) are identical.

N. T.

BC

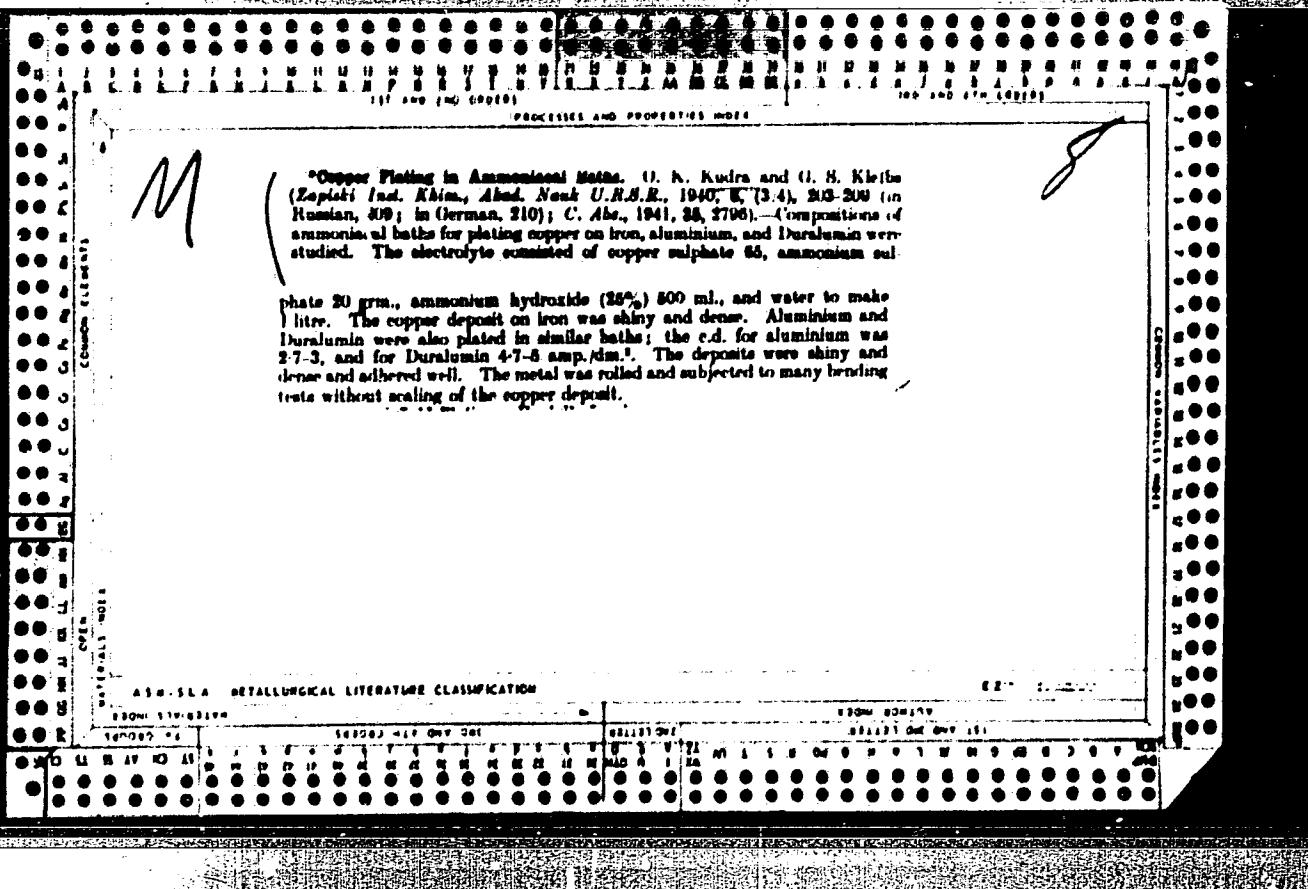
7-1

Thermic elements. O. K. KUDRA (Mosc. Inst. Chem. Ultian. Arct. inst., 1959, 5, 245-249).—The emf. developed between a hot and a cold Cu electrode immersed in CuSO_4 , $\text{Cu}(\text{NH}_3)_4$, cuprocyanide, and cuprophosphotungstate solutions may attain value of up to 0.18 v., with a temp. gradient of 90°. The charge on the hot electrode is positive in the case of Cu in CuSO_4 or cuprocyanide solutions, of Ag in ammoniacal AgCl , of Cu in aq. CdSO_4 , and of Fe in aq. Fe_2O_4 , and negative in the case of Cu in aq. cuprocyanide, Ag in aq. AgNO_3 , and Fe in aq. $\text{K}_4\text{Fe}(\text{CN})_6$. R. T.

A58-304 METALLURGICAL LITERATURE CLASSIFICATION

47
ca
Decomposition potential at various current densities.
O. K. Kidra, *J. Phys. Chem. (U. S. S. R.)* 12, 148, 52
(1908); *Rec. C. A.* 23, 441.
R. J. C.

A10 114. METALLURGICAL LITERATURE CLASSIFICATION



CA

Depolarized potential at various current densities

I. The systems arsenic tribromide-ether and antimony trichloride-ether. U. K. Kushta and G. S. Kleiba. *J. Phys. Chem.* (U. S. R.) 15, 228 (1911). Solns. of pure AsBr₃ and NaCl in pure ether exhibit two distinct depolar. potentials ($d_e \rho_e$). The lower $d_e \rho_e$ corresponds to the deposition of smooth metal deposit, is independent of the constn. of anode up to 30 wt. % and has the values 0.42 and 1.20 v. (calcd. from Thompson's formula) (0.40 and 1.22 v.) resp. The higher $d_e \rho_e$ corresponds to deposition of a black powdery deposit and decreases asymptotically with increasing concn. of solute from 1.44 to 1.14 and 1.97-1.44 v., resp., between 10 and 30 wt. % solute. The relation between current and applied potential for any given concn. of solute is given by two straight lines; that for the smooth deposit from AsBr₃ solns. crossing the abscissa at 0.6, that for the black deposit at 1.18-1.20 v. The existence of two $d_e \rho_e$ and the formation of the black deposit is attributed to the presence of complex ions of solute and anion in the solns. II. The systems AlBr₃-C₆H₆Br and AlBr₃-NaCl-C₆H₆Br. *J. Phys.* 23, 28 (1911). As in the case of AsBr₃ and NaCl with ether, the system AlBr₃-C₆H₆Br shows two $d_e \rho_e$, a lower constn. value of 0.74 v. (calcd. from thermoch. data 1.76 v.) and an upper $d_e \rho_e$ decreasing from 3.28 to 2.10 to 2.06 between 0, 30 and 55 wt. % AlBr₃. The current-voltage diagram consists of two straight lines crossing the abscissa at 0.9 v. for white and 2.4 v. for black Al deposits. Addn. of NaCl to the soln. causes disappearance of the lower $d_e \rho_e$ and in large amounts also an increase of the upper $d_e \rho_e$ up to a curve 4.25-4.05 v. for the ratio NaCl/AlBr₃ = 1.1. The formation of the black deposit and the effects given by addn. of NaCl are interpreted in terms of complex ion mechanism. The differences between the observed $d_e \rho_e$ for the smooth deposits of As and Al and those calcd. from thermoch. data are due to cathodic depolarization. V. H. Rathmann

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8"

MOSKVIN, Grigorij Mikiforovich; KULRYASHEV, Aleksandr Timofeyevich;
ARTEMKIN, Aleksey Andreyevich; SURZHIN, Boris Aleksandrovich;
GONCHAROV, S.P., kand.tekhn.nauk, red.; BOGBROVA, Ye.N.,
tekhn.red.

[Manual for railroad water supply workers] Rukovodstvo rabotnikam
s sholeznodorozhnogo vodosnabzheniia. Moskva, Vses.izdatel'sko-
poligr. ob"edinenie M-va putei soobshcheniiia, 1960. 509 p.
(MIRA 13:5)

(Railroads--Water supply)

VESELOV, V.V., insh.; KUDRYASHOV, A.I., insh.; ORECHKIN, D.B., insh.;
POPOVA, N.V., insh.

Effect of the content of nonsulfur compounds on the quality
of washing powders. Masl.-shir.prom. 26 no.1:13-15 Ja '60.
(MIRA 13:4)

(Cleaning compounds)

KISELEVA, Ye.V.; KARETNIKOV, G.S.; KUDRYASHOV, I.V.; BOTVINKIN, O.K., doktor khim.nauk, retsensent; MAKOLKIN, I.A., doktor tekhn.nauk, retsensent; MISHCHENKO, K.P., doktor khim.nauk, retsensent; GRYAZHOV, V.M., red.; REZUKHINA, T.N., red.; ZAZUL'SKAYA, V.F., tekhn.red.

[Collection of illustrated physical chemistry problems and exercises]
Sbornik primerov i zadach po fizicheskoi khimii. Moskva, Gos. nauchno-tekhn.izd-vo khim.lit-ry, 1960. 264 p. (MIRA 13:7)
(Chemistry, Physical and theoretical--Problems, exercises, etc.)

SOV/124-59-8-8862

Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 8, p 79 (USSR)

AUTHORS: Kudryashov, L.I., Devyatkin, B.A.TITLE: On the Possibility of Applying the Conditions of a Uniform
Helical Motion to the Investigation of the Nonisothermal Motion
of a Gas Under Laminar Conditions in Horizontal Pipes of Circular
Cross SectionPERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta, 1957, Nr 7,
pp 61 - 73ABSTRACT: The authors attempt to study the nonisothermal motion of a gas
in pipes by application of a model of uniform helical motion.
The special case of the motion of a baroclinic viscous gas is
discussed, when the condition

$$\frac{1}{\rho} \text{ grad } p = - \text{ grad } \left(\frac{1}{2} v^2 + \frac{1}{2} \right) - \mathbf{v} \cdot \text{rot } (\mathbf{f} \cdot \mathbf{v})$$

is fulfilled for the entire flow and the vectors \mathbf{v} and $\text{rot } \mathbf{v}$
satisfy the condition: $\text{rot } \mathbf{v} = \mathbf{f} \cdot \mathbf{v}$. The authors repeat here ✓

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8

1. An investigation of agent is
now being conducted.

2. The investigation is being conducted by the FBI.
3. The investigation is being conducted by the FBI.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120012-8"

Catalytic properties of spongey deposits of copper and zinc. *V. V. Kostylev, P. I. Lebedeva, Z. I. Kostyleva, Khim. i Tekhnol. Rastvorov, No. 2, 21-40 (Russian and English summaries), 1974 (1975). A black deposit, comprising a mixt. of Cu, ZnO, and Cu_2O , was prep'd with an air. compn.: Cu 83.4, ZnO 11.8%, Cu_2O 4.65%. The mixt. was used for synthesis of methanol from a gas contg. CO 17.4, H₂ 77.0, and N_2 5.6% at 130 atm pressure and at a temp. range 200 to 400°. The product contained 20% methanol. Analysis of exhaust gas indicated absence of CH_4 and CO_2 . M. O. Holloway*

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M

"Compact and Powdery Electrolytic Deposits of Cadmium and of Manganese. O. Kudra and E. Gitman (Zhur. Priklad. Khim., 1947, 20, 603-612; C. A., 1948, 22, 1624).—[In Russian]. Current/voltage curves were taken with a conc. anode surface of 216 mm.² and three platinum cathodes of (I) 216, (II) 94, and (III) 17 mm.² permitting 3 consecutive readings at widely different c.d. with the same current intensity. In solutions of $(Cd(NO_3)_2 \cdot 4H_2O)$ (0.6-20%), transition from compact to powdery deposits is sudden and is accompanied by a discontinuous jump ΔE of the decomposition potential on curve III; ΔE increases with dilution, from 0.24 to 0.94 V. between 20 and 0.6%; i.e. whereas the first decomposition potential (E_1) is independent of the concentration (~2.2 V.), the second (E_2), corresponding to deposition of powdery cadmium, is variable. The magnitude and the increase of ΔE with increasing dilution are even more marked in solutions of $(CdSO_4 \cdot 3H_2O)$. This demonstrates that E_2 cannot be ascribed to evolution of hydrogen, particularly as hydrogen does accompany perfectly compact deposition, and increased acidity favours compactness, not pulverulence. A discontinuous ΔE of ~1.8 V. appears also in the electrolysis of 0.43% H_2SO_4 , and, since it is observed only on curve III, is obviously due to a cathodic process; in 7% HCl , discontinuities are seen on all 3 curves, corresponding to three values of E = 1.4, 1.8, and 2.35 V.; the first two, found on curves I and II, correspond to evolution of chlorine and oxygen at the anode, while the third, found only in III, must be linked with a new cathodic process. In 10% $MnSO_4 \cdot 6H_2O$, E (on curve I) = 1.8 V. corresponds to evolution of hydrogen; E_2 (III) = 2.75 V., to compact manganese; E_1 (III) = 3.21 V., to powdery manganese; similarly, in 0.15% $Mn(NO_3)_2 \cdot 6H_2O$, E_2 (I) = 1.75 V., E_1 (II) = 2.5 V. (compact Mn), E_2 (II, III) = 3.0 V. (powdery Mn). ΔE is practically independent of the dilution; only $\Delta E' = E_2 - E_1$ increases with dilution. The discontinuous ΔE which coincides with pulverulent deposits

points to discharge of complex ions, the presence of which must thus be assumed even in simple electrolytes, and this is borne out by other (oscillographic and A.C. electrolysis) observations.

4

Polarograms in the absence of a background. I. M. Skobets and O. N. Kupra. *Zhur. Fizich. Khim.* 21, Applied Chem.) 20, 1178-81 (1947). An answer to the problem of attribution of the 2 distinct decompos. potentials observed in the electrolysis of salts of several metals, the lower potential corresponding to deposition of compact, the higher to that of spongy metal, was sought by investigating the current-voltage curves of $CdSO_4$ and $CuSO_4$ solns. with a dropping Hg cathode. The fact that the 2 potentials are found also on this cathode (e.g., in 0.4 and 1.0 M $CdSO_4$, 0.9 and 3 v.), proves that the change of deposition potential is not due to a change in the condition of the metal surface. This is further corroborated by the occurrence of the 2 potentials in solns. of metals which are not deposited in aq. solns., e.g., $NaCl$. That the 2nd potential is not due to discharge of H^+ ions, follows from the absence of any visible H_2 evolution at and far beyond this 2nd potential, in $CdSO_4$ and $CuSO_4$ solns. In acidified solns., one finds 3 distinct potentials of which the 2nd (not the 3rd) corresponds to discharge of H^+ and evolution of H_2 . Consequently, the highest potential which, on a solid cathode, corresponds to powdery deposition, must be due to a discharge of a different kind of metal ions, probably complex ions. Two potentials are found also in the electrolysis of solns. of strong acids, thus, in 0.005 M H_2SO_4 , at 1.8 and 3.4 v. The size of the difference excludes interpretation by direct decompos. of H_2O and attribution of the higher decompos. potential to H^+ ions or to overvoltage. It must be assumed that, even in solns. of acids, the 2nd potential corresponds to discharge of complex ions. Such complex ions produce, in metal salt solns., the spongy powdery deposits. N. T.

A10-11A METALLURGICAL LITERATURE

KUDRA, O. K.

35190. Zakon Elektrovydeleniya Metallov Pri Vysokikh Plotnostyakh Toka. V 8B:50
Let Kievsk. Politekhn. In-Ta, Kiev, 1948, S. 169-81. —Bibliogr:16 Narv.
SO: Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

KUDRA, O.

PA 70T11

USSR/Chemistry - Electrolysis
Chemistry - Anions Mar 1948

"The Problem of the Influence of Anions on Electrode Processes," O. Kudra, E. Gitman, 5 pp

"Zhur Prik Khim" Vol XXI, No 3, pp. 184-89

For cadmium and manganese nitrate solutions, the potentials of formation of loose cathode deposits are sensibly lower than those for solutions of other salts of these metals. It was suggested that this was connected with the oxidizing action of the NO_3^- ion. The described experiments with zinc and lead salts at various current densities, however, show that this is not the case. Submitted 2 Jun 1947.

70T11